



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

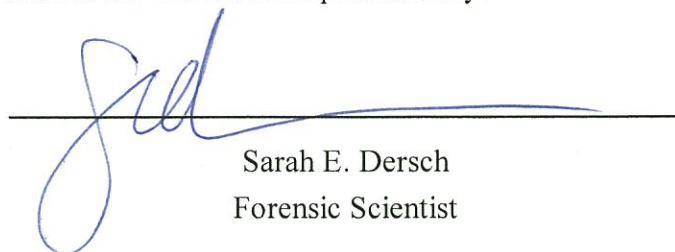
INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010617
CERTIFICATION DATE: March 24, 2014
DATE RECERTIFICATION DUE: September 20, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science as required by §9.1-1101 (B)(3). Measurement traceability is established through the use of reference materials supplied by an ISO/IEC 17025:2005 accredited calibration laboratory.

Estimation of Uncertainty of Measurement:

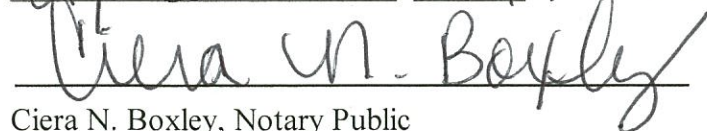
0.020 ± 0.004 g/210 L	0.150 ± 0.007 g/210 L
0.080 ± 0.004 g/210 L	0.250 ± 0.007 g/210 L

The Uncertainty of Measurement is reported at the 99.73% level of confidence and a coverage factor of $k=3$. The estimation of the Uncertainty of Measurement is calculated for the Certification process only.


Sarah E. Dersch
Forensic Scientist

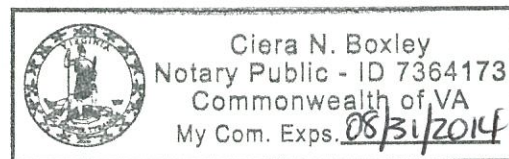
CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 3rd day of April, 2014 by Sarah E. Dersch


Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014

TLV



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 3/24/2014

HMS
End

Instrument Serial Number: 010617	As of 24-Mar-14
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Maintenance Date	Certification Date	Technician Initials	Remarks
24-Mar-14	24-Mar-14	HMS (18910)	CERTIFIED
05-Feb-14	01-Oct-13	HMS (18910)	REPLACED DRY GAS STANDARD.
01-Oct-13	01-Oct-13	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
30-Jul-13	30-Jul-13	TLN (25387)	CERTIFIED.
16-Jul-13	16-Jul-13	HMS (18910)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
19-Mar-13	19-Mar-13	TLN (25387)	CERTIFIED.
28-Dec-12	28-Dec-12	DBH (21250)	CERTIFIED.
16-Jul-12	16-Jul-12	DBH (21250)	CERTIFIED. REPLACED DRY GAS STANDARD.
30-May-12	31-Jan-12	DBH (21250)	SITE VISIT CONDUCTED.
31-Jan-12	31-Jan-12	DBH (21250)	CERTIFIED
16-Aug-11	16-Aug-11	DBH (21250)	REPLACED DRY GAS STANDARD, CERTIFIED
08-Mar-11	08-Mar-11	DBH (21250)	CERTIFIED
20-Sep-10	20-Sep-10	DBH (21250)	CALIBRATED AND CERTIFIED
03-Jun-10	05-Apr-10	DBH (21250)	REPLACED DRY GAS STANDARD
05-Apr-10	05-Apr-10	DBH (21250)	CERTIFIED
20-Oct-09	20-Oct-09	DBH (21250)	CERTIFIED.
13-May-09	13-May-09	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED.
05-Jan-09	05-Jan-09	DBH (21250)	CERTIFIED.
27-Nov-08	27-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

INTOX EC/IR II
Quality Assurance Worksheet

Instrument Serial Number 010617 Worksheet Start Date 3/24/2014
Location DFS-Central
Address
DFS Technician Heather Stanton License No. 18910

☒ Laboratory ☐ On-Site

Site Specification: No detrimental environmental conditions exist. ☐

Instrument Barometer (mm HG) 762 Reference Barometer (mm HG) 763
Reference Barometer(RB)Serial # 009113 RB Calibration Due 5/8/2014

Measurement Assurance Check

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.300	0.300	0.291	0.309	0.296	0.296	0.296
Precision		sample min	sample max			
0		0.296	0.296			

Standard (sea level)	PA Target	minimum	maximum	Sample 1	Sample 2	Sample 3
0.100	0.100	0.097	0.103	0.098	0.098	0.098
Precision		sample min	sample max			
0		0.098	0.098			

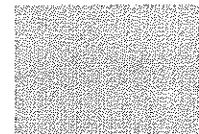
Dry gas standard Lot No. (with tank no.) AG211702-15

☐ Replaced dry gas standard (+O-ring)

☐ Installed at Location

☐ Removed to DFS-Central

Supplies
Mouthpieces
Certificates of Analysis
Operator Worksheet
Other:



Notes:

Instrument Serial Number

010617

Certification Date

3/24/2014

☐ Calibrated☒ Certified☒ Measurement Assurance Check☒ Instrument Test☐ Troubleshooting/Maintenance Worksheet Completed

(Successful completion denotes satisfactory condition of the item.)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.245
0.250	0.250	0.242	0.257	Sample 2	0.245
Precision		sample min	sample max	Sample 3	0.244
0.001		0.244	0.245		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.147
0.150	0.150	0.145	0.154	Sample 2	0.147
Precision		sample min	sample max	Sample 3	0.147
0		0.147	0.147		

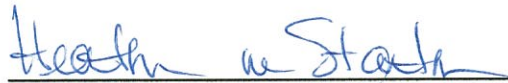
Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.078
0.080	0.080	0.077	0.083	Sample 2	0.078
Precision		sample min	sample max	Sample 3	0.078
0		0.078	0.078		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

All measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section


DFS Technician



Date

3/24/14

Issuing Analyst



Date

3/25/14

HMS
SOL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010617 Test Number: 1665
Test Date: 03/24/2014 Test Time: 13:00 EDT

Technician Initials: HMS

Dry Gas Target: 0.250

Lot Number: 0771325014-02 Exp Date: 05/01/2015

Tank Pressure: 473 psi Barometric Pressure: 761 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:01
BLK	0.000	13:02
CHK	0.245	13:03
BLK	0.000	13:04
CHK	0.245	13:05
BLK	0.000	13:07
CHK	0.244	13:08
BLK	0.000	13:09

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

HMS
SW

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010617 Test Number: 1666
Test Date: 03/24/2014 Test Time: 13:13 EDT

Technician Initials: HMS

Dry Gas Target: 0.150

Lot Number: 0651215014-04 Exp Date: 04/01/2014

Tank Pressure: 556 psi Barometric Pressure: 761 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:14
BLK	0.000	13:14
CHK	0.147	13:15
BLK	0.000	13:17
CHK	0.147	13:17
BLK	0.000	13:19
CHK	0.147	13:20
BLK	0.000	13:21

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

HMS

SL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010617 Test Number: 1667
Test Date: 03/24/2014 Test Time: 13:23 EDT

Technician Initials: HMS

Dry Gas Target: 0.080

Lot Number: 0771308012-04 Exp Date: 05/01/2015

Tank Pressure: 100 psi Barometric Pressure: 761 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:24
BLK	0.000	13:25
CHK	0.078	13:25
BLK	0.000	13:27
CHK	0.078	13:28
BLK	0.000	13:29
CHK	0.078	13:30
BLK	0.000	13:31

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

HMS
Sub

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010617 Test Number: 1668
Test Date: 03/24/2014 Test Time: 13:34 EDT

Technician Initials: HMS

Dry Gas Target: 0.020

Lot Number: 0771302011-01 Exp Date: 05/01/2015

Tank Pressure: 992 psi Barometric Pressure: 761 mmHg
System Check: Passed

Test	g/210L	Time
DIAG	Pass	13:34
BLK	0.000	13:35
CHK	0.019	13:36
BLK	0.000	13:37
CHK	0.019	13:38
BLK	0.000	13:39
CHK	0.019	13:40
BLK	0.000	13:41

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

AMS
Sd

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010617 Test Number: 1669

Test Date: 03/24/2014 Test Time: 13:49 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-05 Exp Date: 08/15/2015

Tank Pressure: 125 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	13:49
CHK	0.296	13:50
BLK	0.000	13:52
CHK	0.296	13:53
BLK	0.000	13:55
CHK	0.296	13:56

Test Status: *Success*

Calibration CRC: 57CA468F

Handwritten:
LIVE
Sd

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010617 Test Number: 1670

Test Date: 03/24/2014 Test Time: 14:00 EDT

Dry Gas Target: 0.100

Lot Number: AG211702-15 Exp Date: 04/26/2014

Tank Pressure: 345 psi Barometric Pressure: 761 mmHg

System Check: *Passed*

Test	g/210L	Time
BLK	0.000	14:01
CHK	0.098	14:01
BLK	0.000	14:03
CHK	0.098	14:04
BLK	0.000	14:05
CHK	0.098	14:06

Test Status: *Success*

Calibration CRC: 57CA468F

AND
Sd

INSTRUMENT, TEST,

DFS

STANTON, HEATHER, M

DFS Central Lab

18910

10/01/2014

03/24/2014

010617

03/24/2014

14:19 EDT

0.00



IntoxNet MIS Report

Report Generated 24 Mar 2014 at 14:25

Handwritten initials/signature

Test Results

Instrument Serial Number 010617

Test # 001671 Subject Test

Test Location 1 Department of
Test Date 24 Mar 2014

Test Location 2 Forensic Science
Test Time 14:13
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name STANTON
Agency DFS Central Lab

Operator's First Name HEATHER

Operator's Middle Initial M

Card Serial Number 118910

License Number 18910

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 24 Mar 2014 End Time 14:20

Result Time 14:19

Result Date 24 Mar 2014 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 14:13

Data Type BLK

Sample Value 0.000

Sample Time 14:14

Data Type CHK

Sample Value 0.098

Sample Time 14:15

Data Type BLK

Sample Value 0.000

Sample Time 14:16

Data Type SUBJ

Sample Value 0.000

Sample Time 14:17

Data Type BLK

Sample Value 0.000

Sample Time 14:18

Data Type SUBJ

Sample Value 0.000

Sample Time 14:19

Data Type BLK

Sample Value 0.000

Sample Time 14:20

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG211702-15

Standard Expiration Date 04/26/2014

Tank Pressure 340

Barometric Pressure 761 mmHg

Blow Sample Number 1 Blow Duration 3.15 sec

Blow Volume 1746 cc End-of-Blow Time 14:17

Blow Sample Number 2 Blow Duration 3.17 sec

Blow Volume 1736 cc End-of-Blow Time 14:19

Tamper Evident Stamp 46bd78ee

Test Status Code 0

Test Status Success